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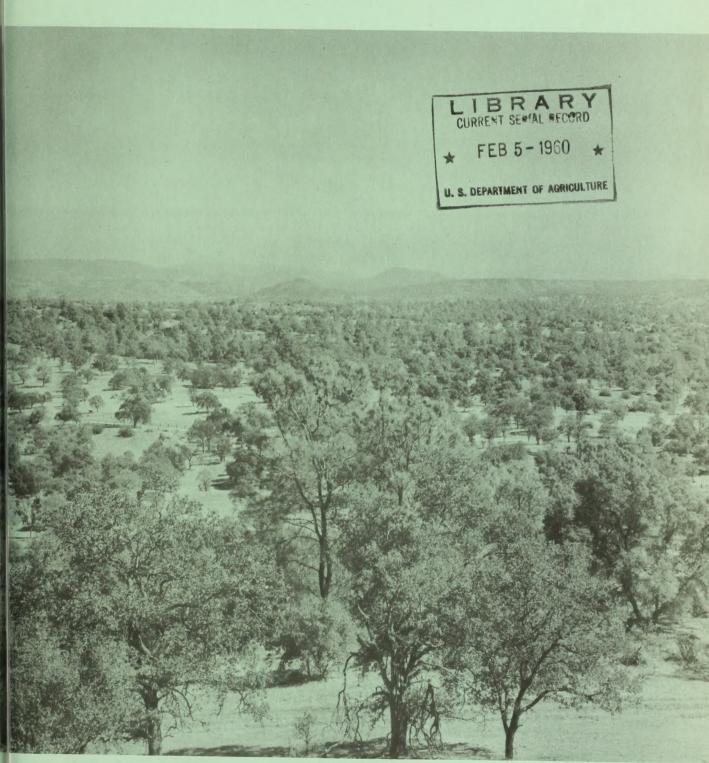
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2M68 CHECKLIST OF PLANTS OF THE SAN JOAQUIN EXPERIMENTAL RANGE

R. F. BUTTERY AND L. R. GREEN



MISCELLANEOUS PAPER NO. 23 CALIFORNIA FOREST AND RANGE EXPERIMENT STATION
KEITH ARNOLD, DIRECTOR FOREST SERVICE - U.S. DEPARTMENT OF AGRICULTURE

FOREWORD

This publication is the result of the efforts of many people distributed over 23 years. The plants named herein represent 58 different families, all present in some degree on the 4600-acre San Joaquin Experimental Range. Range research on any area involves many things, but high in priority always is the discovery, identification, and evaluation of plant species. This is frequently a continuing chore because conditions favorable to all plants seldom if ever occur, and many plants are so short-lived they are difficult to find. Thus the long period required to develop this list.

It is my hope, and I know the authors concur, that this publication will be of use to technicians and administrators.

E. J. Woolfolk, Chief Division of Range Management Research

A CHECK LIST OF PLANTS OF THE SAN JOAQUIN EXPERIMENTAL RANGE

by

Robert F. Buttery, Range Conservationist, Division of Range Management Research, and Lisle R. Green

Miscellaneous Paper No. 23

April 1958

CALIFORNIA FOREST AND RANGE EXPERIMENT STATION BERKELEY, CALIFORNIA FOREST SERVICE--U.S. DEPARTMENT OF AGRICULTURE

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PREFACE

The San Joaquin Experimental Range is located near the center of the State in the granite-soil section of the Sierra Nevada foothills. It is in Madera County, 28 miles north of Fresno, California. This 4600-acre experimental area was established in 1934 as a branch station of the California Forest and Range Experiment Station, U. S. Forest Service. Research aimed at increased production from California foothill range through improved management, fertilization, brush control, and livestock management has been carried out since establishment.

The area lies in the "annual grass type" and is characterized by grassy rolling hills with a sparse covering of trees and occasional dense stands of brush. It is in the lower part of the woodland zone between the treeless valley floor and the higher brush and timber belts.

The herbaceous ground cover consists mostly of annual grasses and forbs. In contrast, perennials dominate most western range areas. Ecologically speaking, the area is near the lower limits of the Upper Sonoran Zone. The elevation varies from 700 to 1700 feet, with most of the area lying between 1000 and 1500 feet. Exposures are generally southwesterly.

The drainage basin empties into a small tributary of the San Joaquin River. No permanent streams flow through the area, but springs are numerous and the small drainages carry surface flows during the winter months.

The slope soils are shallow, residual, of granitic origin, and are classed in the Vista series. The swale soils are deeper, alluvial, and are classed in the Visalia series. Both have a low water-holding capacity.

The climate is characterized by mild, rainy winters and hot, dry summers. Snow is rare. Seasonal precipitation usually begins in September and has averaged 19.4 inches, with extremes of 12.3 and 32.1 inches, during the past 23 years. On the average, over 70 percent of the precipitation falls during 4 months, December through March. From mid-May to mid-September there is practically no rain at all.

Seeds of most herbaceous plant species germinate with the first 1/2 to 1 inch of fall rain and grow slowly during the winter. The plants grow rapidly when warm temperatures return in March, reach maturity in April, and are mostly dry by mid-May.

Plant species listed in the text have been collected at the Range during the past 23 years. Standards of abundance for herbaceous vegetation are as follows:

Abundant -- species appears on at least 75 percent of sample quadrats. Only 3 species fall in this category.

Very common -- species appears on at least 15 percent of sample quadrats. There are 18 species in this category.

common -- species appears on at least 1 sample
quadrat.

Uncommon -- species appears each year on the Range and in most pastures, but infrequently in pasture samples.

Rare -- species appears in 1 or 2 locations on the Range, or in especially favorable years, but seldom if ever in herbage samples.

All plant species listed herein were identified by the Division of Range Management Research, U. S. Forest Service, Washington, D. C. The following authority was used for recent changes in nomenclature:

Abrams, Leroy. 1951. Illustrated Flora of the Pacific States. Stanford University Press, Stanford, California.

Botanical names in parentheses are synonyms which have been used at the Range. The following source was used for common names:

Kelsey, H. P., and Dayton, W. A. 1942. Standardized Plant Names. Second Edition. J. Horace McFarland Co., Harrisburg, Pennsylvania. 675 p.

Locally well established common names are also listed for some plants.

INDEX

<u>Species</u> <u>Family</u>	Page
Grasses and grass-like plants Cyperaceae Sedge Gramineae Grass Juncaceae Rush Lemnaceae Duckweed Typhaceae Cattail	1 4 1 5 5
Aizoaceae Carpetweed Amaranthaceae Amaranth Asclepiadaceae Milkweed Boraginaceae Borage Campanulaceae Bellflower Caryophyllaceae Chenopodiaceae Goosefoot Compositae Sunflower Crassulaceae Sunflower Crassulaceae Sunflower Crassulaceae Goosefoot Compositae Sunflower Crassulaceae Sunflower Crassulaceae Goord Datistaceae Buphorbiaceae Gourd Datistaceae Datisca Euphorbiaceae Gentian Geraniaceae Gernium Hydrophyllaceae Gernium Hydrophyllaceae Gernium Hydrophyllaceae Gernium Hydrophyllaceae Gernium Hydrophyllaceae Featiliaceae Ililiaceae Ililiaceae Ililiy Limnanthaceae Featiliaceae Iloasa Lobeliaceae Iloasa Congraceae Mallow Onagraceae Mallow Onagraceae Oxalia Papaveraceae Poppy Plantaginaceae Plantain Polemoniaceae Phlox	6 8 19 21 25 9 8 26 12 11 17 16 19 15 22 13 6 6 15 17 17 17 17 17 17 17 17 17 17 17 17 17
Polygonaceae Buckwheat Polypodiaceae Fern Portulacaceae Purslane Primulaceae Primrose Ranunculaceae Buttercup Rosaceae Rose Rubiaceae Madder	7 6 9 19 10 12 25

		Page
Species	Family	
Forbs (Continued) Saxifragaceae Scrophulariaceae Solanaceae Umbelliferae Valerianaceae Verbenaceae Zygophyllaceae	Figwort Nightshade Parsley Valerian Verbena	12 23 23 18 25 22 16
Woody plants Anacardiaceae Caprifoliaceae Ericaceae Fagaceae Hydrophyllaceae Loranthaceae Pinaceae Rhamnaceae Rubiaceae Salicaceae Sapindaceae	Sumac Honeysuckle Heath Oak Phacelia Mistletoe Pine Buckthorn Madder Willow	30 30 32 31 30 31 30 31 32 30 31

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Botanical and common name :	Occurrence	Habitat
TYPHACEAE Cattail family		
Typha latifolia L. Common cattail Broad-leaved cattail	Rare	Wet swale
GRAMINEAE Grass family		
Aira caryophyllea L. (Aspris caryophyllea Nash) Silver hairgrass	Common	Slope, on shallow soil
Avena barbata Brot. Slender wild oat	Very common	Slope, especially south
Avena fatua L. Wild oat	Rare	Slope
Briza minor L. Little quakinggrass	Common	Swale
Bromus arenarius Labill. Australian brome	Common	Slope, especially south
Bromus mollis L. (Bromus hordeaceus L.) Soft brome or chess	Abundant	Slope and dry swale
Bromus rigidus Roth. Ripgut brome	Very common	Slope, especially shaded, and dry swale
Bromus rubens L. Foxtail brome Red brome	Very common	Slope, all exposures
Cynodon dactylon (L.) Pers. Bermuda grass	Uncommon	Wet swale
Deschampsia danthonioides (Trin.) Munro ex Benth. Annual hairgrass	Uncommon	Lower slope and swale
Digitaria sanguinalis (L.) Scop. (Syntherisma sanguinalis Dulae, Fl. Haut.)	Uncommon	Gardens
Hairy crabgrass	-1-	

Botanical and common name :	Occurrence	: Habitat
Distichlis stricta (Torr.) Rydb. Inland saltgrass	Rare	Creek bank
Elymus triticoides Buckl. Creeping wildrye Beardless wildrye	Rare	Dry swale
Eragrostis <u>cilianensis</u> (All.) Lutati Stinkgrass	Rare	Barnyard and garden
Eragrostis diffusa Buckl. Spreading lovegrass	Rare	Barnyard
Festuca confusa Piper Klickitat fescue Hairy-leaved fescue	Uncommon	Slope
Festuca grayi (Abrams) Piper Gray's fescue	Common	Slope, especially south
Festuca megalura Nutt. Foxtail fescue	Abundant	Slope, all exposures and dry swale
Festuca pacifica Piper Pacific fescue	Uncommon	Slope, especially north
Festuca reflexa Buckl. Twoflower fescue	Uncommon	Slope, especially south
Gastridium ventricosum (Gouan) Schinz and Thell Nitgrass	Common	Slope, on shallow soil
Hordeum brachyantherum Nevski (Hordeum nodosum L.) Meadow barley	Uncommon	Dry swale
Hordeum hystrix Roth. (Hordeum gussonianum Parl.) Mediterranean barley	Very common	Wet swale

Botanical and common name :		Habitat
Hordeum leporinum Link (Hordeum murinum L.) Mouse barley Common foxtail	Common	Disturbed soil or lower slope
Koeleria phleoides (Vill.) Pers. Annual koeleria	Rare	Swale
Lolium multiflorum Lam. Italian ryegrass Annual ryegrass	Seeded	Swale and lower slope
Melica californica Scribn. California melicgrass	Uncommon	Rock outcrop
Melica imperfecta Trin. Coastrange melicgrass Small-flowered melicgrass	Uncommon	Rock outcrop
Oryzopsis miliacea (L.) Benth.	Seeded	Lower slope
Panicum capillare occidentale Rydb. Common witchgrass	Uncommon	Swale
Phalaris californica Hook. and Arn. California canarygrass	Rare	
Phalaris caroliniana Walt. Carolina canarygrass	Uncommon	Wet swale
Phalaris coerulescens Sunol grass	Seeded	Lower slope and swale
Phalaris tuberosa stenoptera (Hack.) Hitchc. Hardinggrass	Seeded	Swale
Poa annua L. Annual bluegrass	Common	Swale

Botanical and common name	Occurrence	: Habitat
Poa scabrella (Thurb.) Benth. ex Vassey Pine bluegrass	Common	Slope, especially north
Polypogon monspeliensis (L.) Desf. Rabbitfoot polypogon Beardgrass	Common	Creekbed
Scribneria bolanderi (Thurb.) Hack. Scribneria	Rare	Slope
Setaria viridis (L.) Beauv. Green bristlegrass	Uncommon	Gardens
Sorghum halepense (L.) Pers. Johnsongrass	Rare	Swale
Stipa cernua Stebbins and Love. Nodding stipa	Seeded	Slope
Stipa pulchra Hitchc. California needlegrass Purple stipa	S eeded	Slope
CYPERACEAE Sedge family		
Cyperus inflexus Muhl. Flatsedge Awned cyperus	Uncommon	Creekbed [*]
Cyperus vegetus Willd. (Cyperus virens) Green flatsedge Tall cyperus	Uncommon	Creekbed
Eleocharis macrostachya Britton (Eleocharis palustris R. and S.) Spikesedge Common spikerush	Common	Wet swale

Botanical and common name	#	Occurrence :	Habitat
LEMNACEAE Duckweed family			
Lemna sp. Duckweed		Uncommon	Seep
JUNCACEAE Rush family			
Juncus bufonius L. Toad rush		Common	Dry swale
Juncus oxymeris Engelm. Slenderleaf rush Pointed rush		Common	Wet swale
Juncus macrophyllus Coville Long-leaved rush		Common	Wet swale

Botanical and common name	Occurrence :	
POLYPODIACEAE Fern family		
Pityrogramma triangularis (Kaulf.) Maxon (Gymnogramme triangularis Kaulf.) Goldfern	Common	Shaded rock outcrop
Pellaea mucronata (D.C. Eaton) D.C. Eaton Birdsfoot cliffbrake	Common	Shaded rock outcrop
LILIACEAE Lily family		
Allium hyalinum Curran Eldorado onion Paper-flowered onion	Uncommon	Slope
Brodiaea capitata Benth. (Dichelostemma capitatum [Benth.] Wood) Bluedicks brodiea Common brodiea	Very common	Slope
Brodiaea coronaria (Salisb.) Engler. Harvest brodiea	Common	Swale and lower slope
Brodiaea laxa (Benth.) Wats. (Triteleia laxa Benth.) Grassnut brodiea	Uncommon	Slope
Brodiaea volubilis (Kell.) Baker (Dichelostemma californicum [Torr.] Wood) Vine brodiea Twining brodiea Snake lily	Uncommon	Steep rocky slope
Calochortus <u>luteus</u> Dougl. Yellow mariposa	Uncommon	Slope

Botanical and common name :	Occurrence :	Habitat
Calochortus luteus oculatus Wats. Mariposa	Uncommon	Slope
Chlorogalum pomeridianum (DC.) Kunth. Common soapplant Amole soapplant	Common	Rock outcrop
Muilla tenuis Congdon (Muilla maritima [Torr] Wats.) Muilla Common muilla	Common	Slope
POLYGONACEAE Buckwheat family		
Chorizanthe membranacea Benth. Pink chorizanthe Spineflower	Common	Slope, on shallow soil
Chorizanthe stellulata Benth. Starlet chorizanthe Spineflower	Common	Slope, on shallow soil
Eriogonum gracillimum Wats. Slender eriogonum	Uncommon	Slope
Eriogonum nudum Benth. Barestem eriogonum	Uncommon	Slope
Eriogonum virgatum Benth. Virgate eriogonum	Common	Slope
Polygonum aviculare L. Prostrate knotweed Knotweed Knotgrass	Uncommon	Barnyard and gardens
Polygonum punctatum Elliot (Polygonum acre H.B.K.) Dotted smartweed Water smartweed	Uncommon	Creekbed

Botanical and common name :	Occurrence	: Habitat
Pterostegia drymarioides Fisch. and Mey. Pterostegia	Common	Shaded slope
Rumex crispus L. Curly dock	Common	Creekbed
CHENOPODEACEAE Goosefoot family		
Chenopodium album L. Lambsquarters goosefoot	Uncommon	Disturbed soil
Chenopodium ambrosiordes chilense (Schrad.) Spegaz. Wormseed goosefoot Pigweed	Uncommon	Disturbed soil
Chenopodium leptophyllum Nutt. Slimleaf goosefoot	Common	Disturbed soil
Chenopodium pumilio R. Br. Goosefoot	Uncommon	Disturbed soil
AMARANTHACEAE Amaranth family		
Amaranthus graecizans L. Tumbleweed amaranthus Tumbling pigweed	Uncommon	Disturbed soil
Amaranthus retroflexus L. Redroot amaranthus Rough pigweed	Uncommon	Disturbed soil
AIZOACEAE Carpetweed family		
Mollugo verticillata L. Carpetweed Indian chickweed	Uncommon	Seep

Botanical and common name :	Occurrence	: Habitat
PORTULACACEAE Purslane family		
Calindrina caulescens menziesii Gray (C. ciliata var. menziesii [Hook.] J.F.Macbride) Redmaids	Very common	Slope
Montia fontana L. Indian lettuce Water chickweed	Common	Wet swale
Montia perfoliata (Donn.) Howell Indian lettuce Miners' lettuce	Common	Shaded slope
Portulaca oleracea L. Common purslane	Uncommon	Gardens
CARYOPHYLLACEAE Chickweed family		
Arenaria douglasii Fenzl. Douglas sandwort	Uncommon	Slope
Cerastium viscosum L. Sticky cerastium Mouse-ear chickweed	Common	Lower slope
Herniaria cinerea DC. Gray burstwort Gray herniaria	Uncommon	Slope
Sagina apetala barbata Fenzl. Dwarf pearlwort	Uncommon	Slope
Silene gallica L. French silene Common catchfly Windmill pink	Very common	Slope
Spergula arvensis L. Corn spurry	Uncommon	Lower slope and dry swale

Botanical and common name	Occurrence	Habitat
Spergularia marina (L.) Griseb. (S. salina J. and C.) Saltmarsh sand spurry	Uncommon	Lower slope
Stellaria media (L.) Cyrill. Chickweed	Common	Lower slope
RANUNCULACEAE Buttercup family		
Delphinium decorum patens (Benth.) Gray Yellowtinge larkspur Coast larkspur	Uncommon	Slope, especially north
Delphinium hanseni Greene Hansen larkspur	Common	Shaded lower slope
Ranunculus aquatilis L. (R. aquatilis var. capillaceus [Thuill.] DC.) Watercrowfoot buttercup Water buttercup	Common	Creekbed
Ranunculus californicus Benth. California buttercup	Common	Wet swale
Ranunculus hebecarpus Hook. and Arn. Pubescent-fruited buttercup	Uncommon	Shady slope
PAPAVERACEAE Poppy family		
Eschscholtzia caespitosa Benth. Gold poppy	Uncommon	Slope, especially south
Eschscholzia californica Cham. California poppy	Common	Slope, especially south
Eschscholzia lobbii Greene Fryingpans	Common	Slope

Botanical and common name	:	Occurrence	:	Habitat
Papaver heterophyllum (Benth.) Greene Wind poppy		Uncommon		Shady north slope
Platystemon californicus Benth Creamcups platystemon	1.	Common		Creekbank
CRUCIFERAE Mustard family				
Arabis maxima Greene (Arabis arcuata Gray (Arabis holboellii varancuata Jepson) Rockcress		Uncommon		Rocky slope
Athysanus pusillus (Hook.) Greene Dwarf athysanus		Common		Slope
Capsella bursa-pastoris (L.) Medic. Shepherdspurse		Common		Slope
Lepidium nitidum Nutt. Tongue pepperweed Shining peppergrass		Common		Swale
Radicula nasturtium- aquaticum (L.) Britt. and Rendle Watercress		Uncommon		Seep
Sinapsis arvensis L. (Brassica arvensis [L.] B.S.P. Field charlock)	Uncommon		Creekbank
Streptanthus coulteri (Wats.) Greene Twistflower		Common		Slope
Streptanthus diversifolius Wats. Varied-leaved streptanthus	3	Uncommon		Slope

Botanical and common name	Occurrence :	Habitat
Streptanthus tortuosus Kell. Mountain streptanthus	Uncommon	Slope
Streptanthus heterophyllus Nutt. San Diego streptanthus	Uncommon	Slope
Thysanocarpus curvipes Hook. Hairy fringepod	Common	Slope
Tropidocarpum gracile Hook. Dobie pod	Common	Slope
CRASSULACEAE Stonecrop family		
Tillaea erecta Hook. and Arn. Sand pygmyweed	Very common	Slope
SAXIFRAGACEAE Saxifrage family		
Lithophragma heterophylla (Hook. and Arn.) Torr. and Gray. Hillstar	Common	Shady north slope
Saxifraga californica Greene California saxifrage	Uncommon	Slope, especially north
Saxifraga integrifolia Hook. Hooker's saxifrage	Uncommon	Slope, especially north
ROSACEAE Rose family		
Alchemilla occidentalis Nutt. (A. arvensis [L.] Scop.) Field ladysmantle Western ladysmantle	Common	Slope

Botanical and common name	Occurrence :	Habitat
<u>LEGUMINOSAE</u> Pea family		
Astragalus asymmetricus Sheldon (A. leucophyllus Torr. and Gray) Woolyleaf loco San Joaquin locoweed	Rare	Slope
Astragalus gambellianus Sheldon (A. nigrescens Nutt.) Gambel's dwarf locoweed	Common	Slope, especially south
Lotus americanus (Nutt.) Bisch. (Hosackia americana [Nutt.] Piper) Spanish clover Deervetch	Very common	Lower slope
Lotus argophyllus decorus (Jtn.) Ottley (Hosackia argophylla Gray) Silver deervetch	Uncommon	Slope
Lotus micranthus Benth. (Hosackia parviflora Benth.) Littleflower deervetch	Uncommon	Slope
Lotus scoparius (Nutt.) Ottley (Hosackia glabra [Vogel] Torr.) Broom deervetch Deerweed	Uncommon	Slope, especially north
Lotus strigosus (Nutt.) Greene (Hosackia strigosa Nutt.) Fine-leaved deervetch	Common	Slope, especially south
Lotus subpinnatus Lag. (Hosackia subpinnata [Lag.] Torr. and Gray) Chilean deervetch Hairy lotus	Common	Slope
Lupinus albifrons Benth. Whiteface lupine Bush lupine	Common	Rocky slope

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Botanical and common name	:	Occurrence :	Habitat
Lupinus benthami Hel. Spider lupine Bentham's lupine	(Common	Slope
Lupinus bicolor Lindl. Bicolor lupine Ground lupine	,	Very common	Slope
Lupinus densiflorus Benth. Gully lupine Dense-flowered lupine		Uncommon	Slope
Lupinus formosus Greene Lunara lupine Summer lupine		Common	Slope
Lupinus nanus Dougl. Sky lupine	1	Uncommon	Slope
Medicago apiculata Willd. Smoothbur medic		Uncommon	Lower slope and dry swale
Medicago hispida Gaertn. California burclover	1	Uncommon, excepteas seeded	Lower slope and dry swale
Trifolium albopurpureum Torr. and Gray. Rancheria clover Indian clover	1	Uncommon	Slope
Trifolium amplectens Torr. and Gray. Bladder clover Pale sack clover	1	Uncommon	Slope
Trifolium ciliolatum Benth. (Trifolium ciliatum Nutt.) Foothill clover Tree clover	(Common	Lower slope
Trifolium depauperatum Depauperate clover Dwarf sack clover		Uncommon	Slope

Botanical and common name	Occurrence	
Trifolium dichotomum Hook. and Arn. Branched Indian clover	Uncommon	Slope, especially north
Trifolium hirtum All. Rose clover	Where seeded	Lower slope
Trifolium incarnatum Crimson clover	Where seeded	Dry swale
Trifolium microcephalum Pursh. Littlehead clover	Very common	Slope
Trifolium obtusiflorum Hook. Clammy clover Creek clover	Uncommon	Creekbed
Trifolium subterraneum Subterranean clover	Where seeded	Dry swale
Trifolium tridentatum Lindl. Tomcat clover	Common	Lower slope
Trifolium variegatum Nutt. Whitetip clover	Very common	Wet swale
LINACEAE Flax family		
Linum usitatissimum L. Common flax	Uncommon	Slope
OXALIDACEAE Oxalis family		
Oxalis corniculata L. Creeping oxalis Woodsorrel	Uncommon	Gardens and shaded slope
GERANIACEAE Geranium family		
Erodium botrys Bertol. Big heronbill Broadleaf filaree	Abundant	Slope and dry swale

Botanical and common name :	Occurrence :	Habitat
Erodium cicutarium L'Her. Alfileria Redstem filaree	Common	Lower slope
Erodium obtusiplicatum (Maire, Weiller and Wilczek) J.T. Howell (E. botrys f. montanum Brumhard) Big heronbill Broadleaf filaree	Very common	Slope
Erodium moschatum L'Her. Musk heronbill Whitestem filaree	Uncommon	Lower slope
Geranium carolinianum L. Carolina geranium	Uncommon	Lower slope
Geranium sphaerospermum Fern. Geranium	Uncommon	Lower slope
LIMNANTHACEAE Meadowfoam family		
Limnanthes douglasi R. Br. Douglas meadowfoam	Common	Creekbank
<u>Limnanthes montana</u> Mountain meadowfoam	Uncommon	Creekbank
EUPHORBIACEAE Spurge family		
Euphorbia ocellata D. and H. Euphorbia	Common	Slope
ZYGOPHYLLACEAE Caltrops family		
Tribulus terrestris L. Puncturevine Goathead	Rare	Disturbed soil

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Botanical and common name :	Occurrence :	Habitat
MALVACEAE Mallow family		
Malva parviflora L. Little mallow Cheeseweed	Uncommon	Disturbed soil
Sidalcea hartwegii Gray Checkermallow	Common	Lower slope and swale
LOASACEAE Loasa family		
Mentzelia lindleyi T. and G. Lindley mentzelia	Rare	Slope, especially south
DATISCACEAE Datisca family		
Datisca glomerata Brew. and Wats. Durangoroot	Rare	Creekbed
CUCURBITACEAE Gourd family		
Cucurbita foetidissima H.B.K. Calabazillia	Rare	Slope
Echinocystis fabacea Naud. Mockcucumber	Common	Slope, climbing on shrubs
Echinocystis macrocarpa Greene Chilicothe mockcucumber	Common	Slope, climbing on shrubs
LYTHRACEAE Loosestrife family		
Lythrum hyssipifolia L. Hyssop lythrum Loosestrife	Common	Swale, especially on disturbed soil
ONAGRACEAE Evening primrose family		
Boisduvalia densiflora (Lindl.) Wats. Dense spikeprimrose	Uncommon	Swale
	-17-	

Botanical and common name :	Occurrence	: Habitat
Boisduvalia stricta (Gray) Greene Brook spikeprimrose	Uncommon	Swale
Epilobium paniculatum Nutt. Autumn willowweed	Uncommon	Slope
Clarkia <u>dudleyana</u> Abrams (<u>Godetia dudleyana</u> Abrams) Dudley's godetia	Common	Slope, especially north
Clarkia elegans Dougl. Rose clarkia	Common	Slope, especially north
Clarkia <u>nitens</u> Lewis and Lewis (Godetia <u>nitens</u>) Clarkia	Common	Slope
Clarkia purpurea quadrivulnera (Dougl.) Lewis and Lewis (Godetia quadrivulnera [Dougl.] Spach.) Clarkia	Uncommon	Slope
Clarkia williamsonii (Durand and Hilgard) Lewis and Lewis (Godetia viminea Spach.) Orchid godetia	Common	Slope, especially north
Oenothera dentata Cav. Field primrose	Common	Slope, especially south
Oenothera graciflora Hook. and Arn. Slender primrose	Common	Lower slope
UMBELLIFERAE Parsley family		
Daucus pusillus Michx. Southwestern carrot Rattlesnake weed	Common	Slope
Eryngium globosum Jepson Button snakeweed	Common	Swale

Botanical and common name :	Occurrence :	
Lomatium utriculatum (Nutt.) Colt and Rose (Cogswellia) Common lomatium	Uncommon	Slope, especially north
Perideridia pringlei (C. and R.) Nels. and Macbr. (Eulophus pringlei C. and R.) Pringle's yampah	Rare	Slope
Sanicula bipinnatifida Dougl. Purple sanicle	Common	Slope
Sanicula tuberosa Torr. Tuber sanicle	Common	Rock outcrop
PRIMULACEAE Primrose family		
Dodecatheon patulum Greene Dwarf shootingstar	Uncommon	Shaded slope
GENTIANACEAE Gentian family		
Centaurium venustum (Gray) Rob. Pink centaurium	Common	Dry swale
ASCLEPIADACEAE Milkweed family		
Asclepias cordifolia (Benth.) Jepson Purple milkweed	Uncommon	Slope
Asclepias mexicana Cav. Mexican milkweed	Uncommon	Dry swale or lower slope
Asclepias vestita Hook. and Arn. Wooly milkweed	Common	Slope

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Botanical and common name	Occurrence	: Habitat
POLEMONIACEAE Phlox family		
Eriastrum pluriflorum (Heller) H. L. Mason (Gilia brauntonii Jepson and Mason) Gilia	Uncommon	Slope, on shallow soil
Gilia capitata Dougl. Globe gilia	Uncommon	Slope
Gilia tricolor Benth. Birdseye gilia	Very common	Slope
Linanthus bicolor (Nutt.) Greene Bicolored linanthus	Common	Slope
Linanthus ciliatus (Benth.) Greene Bristly-leaved linanthus	Common	Slope
Linanthus dichotomus Benth. Eveningsnow linanthus	Uncommon	Slope, especially north
Linanthus filipes (Benth.) Greene Filiform linanthus	Common	Slope, on shallow soil
Linanthus serrulatus Greene Madera linanthus	Uncommon	Slope, especially north
Navarretia pubescens (Benth.) Hook. and Arn. Downy navarretia	Common	Slope, on shallow soil
HYDROPHYLLACEAE Phacelia family		
Nemophila aurita Lindl. Purple nemophila	Uncommon	Shaded slope
Nemophila heterophylla F. and M. Small white nemophila	Common	Shaded slope

Botanical and common name :	Occurrence :	Habitat
Nemophila maculata Benth. Spotted nemophila Fivespot nemophila	Uncommon	Creekbank
Nemophila menziesii Hook. and Arn. Babyblue-eyes nemophila	Common	Lower slope
Phacelia californica Cham. California phacelia	Uncommon	Rock outcrop
Phacelia hispida Gray Caterpillar phacelia	Common	Rock outcrop
Phacelia platyloba Gray Broadlobed phacelia	Uncommon	Shaded slope
BORAGINACEAE Borage family		
Allocarya trachycarpa (Gray) Greene Rough-fruited allocarya	Common	Wet swale
Amsinckia douglasiana DC. Douglas fiddleneck	Common	Shaded slope
Amsinckia intermedia Fisch. and Mey. Fireweed fiddleneck	Common	Slope
Amsinckia retrorsa Suksd. Rigid fiddleneck Harvest fireweed	Uncommon	Slope
Cryptantha flaccida (Dougl.) Greene Cryptantha	Common	Slope
Cryptantha hooveri I. M. Johnston Hoover's cryptantha	Uncommon	Slope
Heliotropium curassauicum L. Salt heliotrope	Rare	Disturbed soil

Botanical and common name :	Occurrence	: Habitat
Plagiobothrys canescens Benth. Valley popcornflower	Common	Lower slope and dry swale
Plagiobothrys nothofulvus Gray Redstain popcornflower	Very common	Slope and dry swale
Plagiobothrys tenellus Gray Slender popcornflower	Common	Slope, on shallow soil
<u>VERBENACEAE</u> Verbena family		
Verbena lasiostachys Link. (Verbena prostrata R. Br.) Western verbena	Uncommon	Slope
LABIATAE Mint family		
Marrubium vulgare L. Common hoarhound	Uncommon	Disturbed soil
Monardella candicans Benth. Sierra monardella	Common	Swale
Monardella lanceolata Gray Mustang mint	Uncommon	Swale
Pogogyne douglasi Benth. Douglas pogogyne	Common	Swale
Salvia carduacea Benth. Thistle sage	Common	Slope
Salvia columbariae Benth. California chia	Uncommon	Shaded slope
Scutellaria bolanderi Gray Bolander's skullcap	Uncommon	Wet swale and seeps
Scutellaria tuberosa Benth. Tuberous skullcap	Uncommon	Shaded slope

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Botanical and common name	: Occurrence	Habitat
Stachys albens Gray Whitehedge nettle	Uncommon	Seeps
Trichostema lanceolatum Benth. Vinegar bluecurls	Common	Slope
Trichostoma oblongum Benth. Mountain bluecurls	Uncommon	Swale
SOLANACEAE Nightshade family		
Datura meteloides DC. Sacred datura Tolguacha	Uncommon	Disturbed soil
Nicotiana attenuata Torr. Coyote tobacco	Uncommon	Disturbed soil or swale
Solanum nigrum L. Black nightshade	Rare	Lower slope
Solanum xanthi Gray Purple nightshade	Uncommon	Lower slope
SCROPHULARIACEAE Figwort family		
Antirrhinum cornutum Benth. Spurred snapdragon	Uncommon	Slope, especially south
Collinsia bartsiaefolia Benth. Seaside collinsia	Uncommon	Slope
Collinsia bicolor Benth. Pagoda collinsia Chinese houses	Common	Shaded slope
Collinsia tinctoria Hartw. Brownstain collinsia Sticky Chinese houses	Uncommon	Shaded creekbed

Botanical and common name :	Occurrence :	
Cordylanthus compactus Pennell Muleweed	Uncommon	Rocky slope
Mimulus pilosus (Benth.) Wats. Downy mimulus	Uncommon	Lower slope
Mimulus bolanderi Gray Tobacco mimulus	Uncommon	Shaded slope
Mimulus floribundus Dougl. Monkeyflower	Uncommon	Wet swale
Mimulus nasutus Greene (Mimulus guttatus nasutus Jepson) Common monkeyflower	Common	Wet swale
Mimulus nanus Hook. and Arn. Dwarf monkeyflower	Uncommon	Slope
Mimulus viscidus Congdon Viscid monkeyflower	Uncommon	Slope
Mimulus pictus (Curran) Gray Painted monkeyflower	Uncommon	Slope
Orthocarpus erianthus micranthus (Gray) Jepson Johnnytuck owlclover	Common	Slope
Orthocarpus linearilobus Benth. Pallid owlclover	Common	Slope
Orthocarpus purpurascens Benth. Escobita owlclover Common owlclover	Common	Slope
Penstemon breviflorus Lindl. Stubflower penstemon	Common	Rocky slope
Scrophularia californica Cham. and Sch. California figwort	Uncommon	Rock outcrop

Botanical and common name :		: Habitat
Verbascum blattaria L. Moth mullein	Rare	Lower slope
PLANTAGINACEAE Plantain family		
Plantago erecta Morris Dotseed plantain	Very common	Slope
RUBIACEAE Madder family		
Galium aparine L. Catchweed bedstraw	Common	Shaded slope or swale
Galium nuttalli Gray Nuttall bedstraw	Uncommon	Shaded slope or swale
VALERIANACEAE Valerian family		
Plectritis ciliosa (Greene) Jepson Plectritis	Common	Shady lower slope or creekbank
Plectritis macrocera T. and G. Longhorn plectritis	Uncommon	Shady lower slope
CAMPANULACEAE Bellflower family		
Githopsis specularioides Nutt. Githopsis	Uncommon	Slope
LOBELIACEAE Lobelia family		
Downingia bicornuta Gray Downingia	Uncommon	Wet swale
Nemacladus rigidus interior Munz Nemacladus	Uncommon	Lower slope or swale

	courrence	: Habitat
COMPOSITAE Sunflower family		
Achillea lanulosa L. Western yarrow	Uncommon	Lower slope
Agoseris heterophylla (Nutt.) Greene Annual agoseris	Common	Slope
Anaphalis margaritacea (L.) B. and H. Common pearleverlasting	Uncommon	Rocky slope
Baeria chrysostoma gracilis Hall Branchy goldfields	l Very common	Slope
Baeria uliginosa (Nutt.) Gray Goldfields	Uncommon	Slope
Balsamroot Balsamroot	Rare	North slope
Bidens frondosa L. Devils beggarticks	Uncommon	Lower slope
Brickellia california T. and G. Californica brikellia	Uncommon	Rocky slope
Calycadenia mollis Gray Rosinweed	Common	Slope
Calycadenia multiglandulosa DC. Rosinweed	Common	Slope
Calycadenia villosa DC. Rosinweed	Uncommon	Slope
Centaurea melitensis L. Malta centaurea Tocalote Napa thistle	Common	Slope
Centromadia pungens (T. and G.) Greene Common spikeweed	Uncommon	Lower slope

Botanical and common name :	Occurrence	: Habitat
Chaenactis glabriuscula DC. Chaenactis	Common	Slope
Cirsium occidentale (Nutt.) Jepson Western thistle	Common	Slope
Coreopsis bigelovi (Gray) Hall Bigelow coreopsis	Uncommon	Shaded slope
Coreopsis douglasi (DC.) Hall Douglas coreopsis	Uncommon	Shaded slope
Coreopsis stillmani (Gray) Jepson Stillman coreopsis	Uncommon	Shaded slope
Erigeron canadensis L. Horseweed fleabane	Uncommon	Disturbed soil
Erigeron foliosus stenophyllus (Nutt.) Gray Leafy fleabane	Uncommon	Rocky slope
Eriophyllum confertiflorum Gray Goldenyarrow eriophyllum	Common	Rocky slope
Evax caulescens Benth. Evax	Uncommon	Slope, on shallow soil
Filago gallica L. Fluffweed	Common	Slope
Gnaphalium californicum Gray California everlasting	Uncommon	Rocky slope
Gnaphalium palustre Nutt. Lowland cudweed	Uncommon	Lower slope
Grindelia camporum Greene Field gumweed	Uncommon	Slope, especially south

Botanical and common name :	Occurrence :	: Habitat :
Hemizonia heermannii (Hemizonia virgata heermannii Jepson) Yellow tarweed	Very common	Lower slope and swale
Hemizonia kelloggii Greene (Hemizonia wrightii Gray) Wright's tarweed	Common	Rocky slope
Hypochoeris glabra L. Smooth catsear	Very common	Lower slope and dry swale
Lactuca serriola (Lactuca scariola L.) Prickly lettuce	Uncommon	Disturbed soil
Layia gaillardioides Hook. and Arn. Layia	Common	Shady slope
Layia pentachaeta hansenii (Jepson) Keck Layia Tidytips	Common	Shady slope
Lessingia germanorum vallicola Cham. Lessingia	Common	Slope
Lessingia sp. Lessingia	Common	Slope
<u>Madia elegans</u> <u>densifolia</u> Jepson Madia	Uncommon	Creekbed
Matricaria matricarioides (Less.) Porter Pineappleweed	Uncommon	Disturbed soil
Micropus californicus F. and M. Micropus	Common	Slope, on shallow soil
Pentachaeta <u>exilis</u> Gray Pentachaeta	Common	Slope, on shallow soil

Botanical and common name :	Occurrence	: Habitat
Senecio douglasi DC. Douglas groundsel	Uncommon	Slope
Silybum marianum (L.) Gaertn. Milkthistle	Rare	Creekbank
Stephanomeria pauciflora (Torr.) Nels. Wirelettuce	Uncommon	Slope
<u>Uropappus lindeyi</u> Nutt. <u>Uropappus</u>	Uncommon	Lower slope
Xanthium canadense Mill. Cocklebur	Uncommon	Creekbed

WOODY PLANTS

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Botanical and common name	Occurrence :	Habitat
PINACEAE Pine family		
Pinus sabiniana Dougl. Digger pine	Very common	Slope
SALICACEAE Willow family		
Populus fremontii Wats. Fremont cottonwood	Uncommon	Creekbank
Salix laevigata Bebb. Red willow	Uncommon	Creekbank
FAGACEAE Oak family		
Quercus douglasii Hook. and Arn. Blue oak	Very common	Slope
Quercus morehus Kell. Oracle oak	Rare	Slope
Quercus wislizenii DC. Interior live oak	Very common	Slope
LORANTHACEAE Mistletoe family		
Arceuthobium campylopodum Engelm. Western dwarf mistletoe Pine mistletoe	Common	Parasitic on digger pine
Phoradendron villosum Nutt. Common mistletoe	Very common	Parasitic on blue oak and live oak
ANACARDIACEAE Sumac family		
Rhus diversiloba T. and G. Pacific poisonoak	Common	Rocky slope

WOODY PLANTS

Botanical and common name :		: Habitat
Rhus trilobata Nutt. Skunkbush sumac Squawbush	Rare	Slope
SAPINDACEAE Buckeye family		
Aesculus californica (Spach) Nutt. California buckeye	Common	Slope
RHAMNACEAE Buckthorn family		
Ceanothus cuneatus (Hook.) Nutt. Buckbrush ceanothus Wedgeleaf ceanothus	Very common	Slope, especially north
Ceanothus leucodermis Greene (Ceanothus divaricatus) Chaparral whitethorn ceanothus	Uncommon	Slope
Rhamnus californica cuspidata (Greene) Wolf California buckthorn California coffeeberry	Common	Slope
Rhamnus crocea ilicifolia Greene Hollyleaf buckthorn Redberry buckthorn	Common	Slope
ERICACEAE Heath family		
Arctostaphlos mariposa Dudley Mariposa manzanita	Common	Rocky slope
HYDROPHYLLACEAE Phacelia family		
Eriodictyon californicum (Hook. and Arn.) Greene Yerba santa	Uncommon	Slope

WOODY PLANTS

Botanical and common name :	Occurrence	: Habitat
RUBIACEAE Madder family		
Cephalanthus occidentalis L. Common buttonbush	Uncommon	Seep
CAPRIFOLIACEAE Honeysuckle family		
Lonicera interrupta Benth. Chaparral honeysuckle	Räre	Slope, especially north
Sambucus caerulea Raf. (Sambucus glauca Nutt.) Blueberry elder Blue elderberry	Uncommon	Rocky slope



